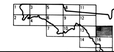
MAR 14 '90 I 49.89: 87/47-1/map C 15

MAP C15

Gainesville

FLORIDA ECOLOGICAL ATLAS

SOILS AND LANDFORMS



MMS 85-0011
FWS/OBS-82/47.1

ORIGINAL

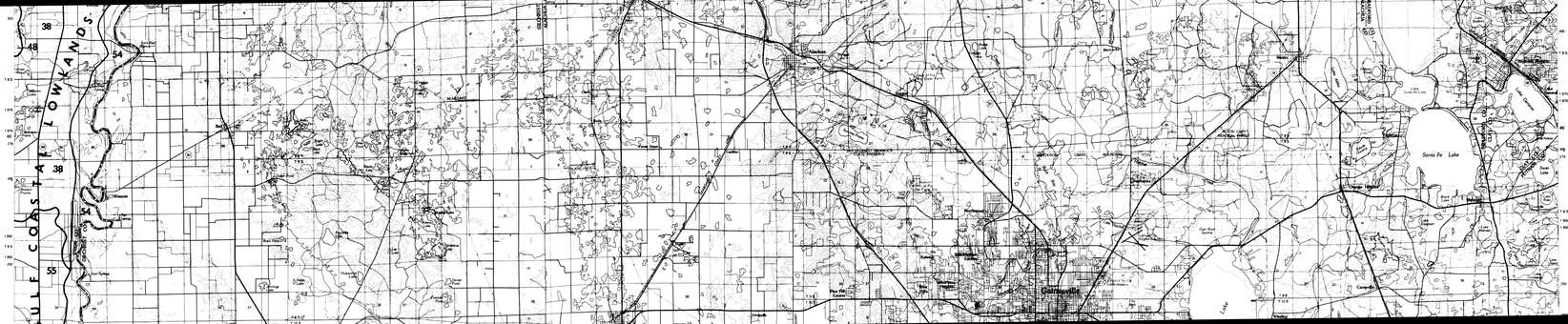
Scale 1:100 000

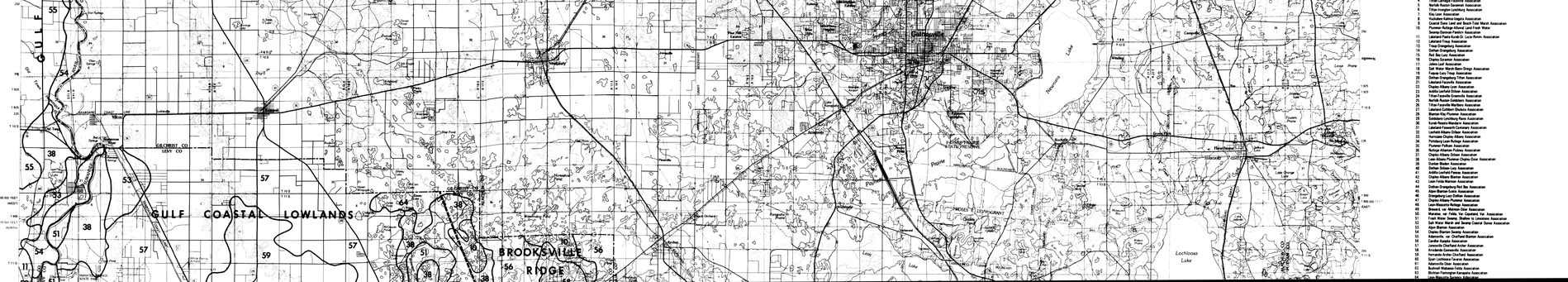
TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

1984

Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal
Transverse Mercator


GULF COASTAL LOWLANDS
Gainesville
Orlando
Kissimmee
Sanford
Daytona Beach
Cocoa
Titusville
Melbourne
Palm Bay
Vero Beach
Fort Pierce
Port St. Lucie
Stuart
Okeechobee
Lake Okeechobee
Lake Kissimmee
Lake Tohopekaliga
Lake Hatchineha
Lake Istokpoga
Lake Jackson
Lake Apopka
Lake Harney
Lake Monroe
Lake Poinsett
Lake Washington
Lake Winder
Lake Arbuckle
Lake Wales
Lake Placid
Lake Josephine
Lake Weohyakapka
Lake Rosalie
Lake Kerr
Lake Griffin
Lake Eustis
Lake Dora
Lake Yale
Lake Minneola
Lake Louisa
Lake Hancock
Lake Parker
Lake Gibson
Lake Hunter
Lake Alfred
Lake Howard
Lake Ariana
Lake Beresford
Lake Dexter
Lake Monroe
Lake Jesup
Lake Harney


GULF
GULF COASTAL LOWLANDS
GILCHRIST CO
LEVY CO
BROOKSVILLE RIDGE
Withlacoochee River
Lochloosa Lake
Newnans Lake
Orange Lake
Lake Wauberg
Paynes Prairie
Alachua
Gainesville
Micanopy
Hawthorne
Waldo
Archer
Cross Creek
Orange Heights
Melrose
Keystone Heights
Starke
Lawtey
Brooker
Hampton
Lake Butler
Raiford
Sanderson
Macclenny
Glen St. Mary
Baldwin
Jacksonville
Orange Park
Green Cove Springs
Middleburg
Jennings
Fargo
Lake City
Columbia City
Alligator Lake
Santa Fe Lake
Lake Sampson
Lake Rowell
Lake Geneva
Lake Magnolia
Lake Brooklyn
Lake Crosby
Lake Alto
Lake Kingsley
Lake Asbury
Lake Fleming
Lake Geneva
Lake Cowpen
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Newnans Lake
Lochloosa Lake
Withlacoochee River
BROOKSVILLE RIDGE
GULF COASTAL LOWLANDS
GILCHRIST CO
LEVY CO
GULF

SCALE 1:100 000

KILOMETRES 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

MILES 0 1 2 3 4 5 6 7 8 9 10 11 12

CONTOUR INTERVAL 5 METRES

CENTIMETRES ON THE MAP REPRESENTS 1 KILOMETRE ON THE GROUND

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GAINESVILLE, FLORIDA

N2930 - W8200/30 X 60

1981

84°00' 83°30' 30°00' 29°30'

PERRY | LAKE CITY | JACKSONVILLE | CROSS CITY | SAINT AUGUSTINE | CEDAR KEYS | OCALA | DAYTONA BEACH

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM, 1612 JUNCTION DRIVE, SUITE 140, LAFAYETTE, LOUISIANA 70501. IT IS INTENDED FOR PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO REDUCE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE RESOURCES, AND HABITATS IN THE COASTAL ZONE OF FLORIDA. THE STUDY AREA INCLUDES THE COASTAL COUNTIES ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, BAY, GULF, FRANKLIN, WAKULLA, LEON, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS APPROXIMATELY 3 MILES INLAND FROM THE COASTLINE. THE ATLAS IS BASED ON PRODUCTS OF FIELD STUDIES EXAMINING THE LIMITS OF PROPERTIES IN JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES WERE USED, THERE MAY BE SOME DISCREPANCIES IN THE LOCATION OF FEATURES. THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

LANDFORMS: Photographic Map of Florida, State Bureau of Geology, 1985.

SOILS: General Soils Atlas of Florida, Florida Agricultural Experiment Station, General Soils Map of Florida, U.S. Soil Conservation Service, 1982.

ACTIVE DUNES: Black and White Aerial Photographs, 1:80,000 Scale, Mark Hurd Aerial Surveys, Inc., 1981. Topographic Maps, 1:24,000 Scale, U.S. Geological Survey, 1970-1981.

GEOLOGIC FAULTS: Map of Escambia and Santa Rosa Counties Showing Contours on top of the Lower Limestone of the Floridan Aquifer, State Bureau of Geology, 1985.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE

10. Plummer-Refuge Alluvial Land-Fresh Water Swamp Complex: Nearly level, poorly drained soils with a thick surface layer overlying a loamy subsoil and very poorly drained soils that are sandy throughout.
11. Lakeland-Pasta-Kendrick-St. Lucie-Rimini Association: Nearly level to steep, excessively drained soils, sandy throughout.
38. Lawn-Alvary-Plummer-Chipley-Osier Association: Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil, and poorly drained soils with very thick sandy loams over loamy subsoil.
39. Lawnhurst-Bonifay-Fuquay Association: Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil; and poorly drained sandy soils with a weakly cemented sandy subsoil layer underlain by loamy subsoil, and very poorly drained sandy soils throughout.
50. Meadow, var.-Felda, var.-Copeland, var. Association: Nearly level, very poorly drained sandy soils with loamy subsoils, and very poorly drained sandy soils with loamy subsoils, shallow to limestone.
51. Fresh Water Swamps: Shallow to Limestone Association: Nearly level, very poorly drained soils, shallow to limestone, subject to prolonged flooding.
53. Alpin-Blanton Association: Nearly level to sloping, excessively drained soils with very thick sandy layers over thin loamy sand or sandy loam lamella, and moderately well drained soils with very thick sandy layers over loamy subsoil.
54. Chipley-Blanton-Swamp Association: Nearly level to gently sloping moderately well drained soils; sandy throughout, and moderately well drained soils with very thick sandy layers over loamy subsoils and very poorly drained soils.
55. Ademonte, var.-Chiefland-Blanton Association: Nearly level to gently sloping, somewhat poorly drained soils, sandy throughout, and well drained soils with thick sandy layers over loamy subsoil, and nearly level, somewhat poorly and moderately well drained soils with very thick sandy layers over loamy subsoils.
56. Candler-Apopka Association: Nearly level to sloping, excessively drained soils with very thick sandy layers over thin loamy or sandy loam lamella, and well drained soils with very thick sandy layers over loamy subsoil.
57. Jonesboro-Chiefland-Blanton Association: Nearly level to gently sloping moderately well drained soils with very thick sandy layers over loamy subsoil, and moderately well drained soils with loamy or clayey subsoils underlain by limestone.
58. Arredondo-Gainesville Association: Nearly level to gently sloping, moderately well to well drained sandy soils with loamy or clayey subsoils underlain by limestone.
59. Hernando-Archer-Chiefland Association: Nearly level to gently sloping, moderately well to well drained soils with loamy or clayey subsoils underlain by limestone.
64. Leon-Rutledge-Surrency Association: Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil, and very poorly drained soils with a weakly cemented sandy subsoil layer underlain by loamy subsoil and very poorly drained sandy soils with clayey subsoil.

E = __ ft/yr — BEACH EROSION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)

A = __ ft/yr — BEACH ACCRETION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)

GULF BARRIER ISLAND

ACTIVE DUNE AREA

U / D — NORMAL FAULT (Showing relative vertical movement, U. up, and D. down)

U / D — SUB-SURFACE NORMAL FAULT (Showing relative vertical movement, U. up, and D. down)

STUDY AREA BOUNDARY

Offshore

Inland (County)

Inland (State)

1 Alachua Audubon Society
2 Alligator Point Association
3 Apalachicola Bay Association
4 Apalachicola Chamber of Commerce
5 Apalachicola Estuarine Research Reserve
6 Apalachicola Historical Society
7 Apalachicola Northern Railroad
8 Apalachicola Riverkeeper
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